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WHAT IS CLAIMED IS:

- 1. A C-11 protein comprising a protein selected from the group consisting of:
- (a) a protein comprising an amino acid sequence having SEQ ID NO. 2 (SEQUENCE LISTING); and
- (b) a protein comprising an amino acid sequence that is derived from the amino acid sequence having SEQ ID NO. 2 by deletion, substitution or insertion of one or more amino acids, said protein having cellcalcification inhibitory activity.
- 2. A gene encoding the protein according to claim 1.
- A pharmaceutical composition comprising the protein according to claim 1.
- 4. The pharmaceutical composition according to claim 3, wherein said composition is intended for a cell-calcification inhibitor.
- 5. A cell-calcification inhibitor comprising a cerg protein selected from the group consisting of:
- (a) a protein comprising an amino acid sequence having SEQ ID NO. 4 (SEQUENCE LISTING); and
- (b) a protein comprising an amino acid sequence that is derived from the amino acid sequence having SEQ ID NO. 4 by deletion, substitution or insertion of one or more amino acids, said protein having cellcalcification inhibitory activity.

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- claim 1.
 7. The antil
- 7. The antibody according to claim 6, wherein said antibody is a monoclonal antibody.

6. An antibody to the C-11 protein according to

8. A method for measuring the calcification of cells comprising:

measuring the expression of a C-11 gene or a c-erg gene in the cells.

- 9. The method according to claim 8, wherein the expression of the gene is measured by the amount of C-11 mRNA expressed in the cells or the amount of c-erg mRNA expressed in the cells using a probe against a DNA sequence specific to the C-11 gene or to the c-erg gene.
- 10. The method according to claim 8, wherein the expression of the gene is measured by the amount of expression of a C-11 protein in the cells or the amount of expression of a c-erg protein in the cells.
- 11. The method according to claim 8, wherein the expression of the gene is measured by the amount of the C-11 protein expressed in the cells or the amount of the c-erg protein expressed in the cells by means of the antibody according to claims 6, or 7.
- 12. A method for diagnosing osteoarthritis or OPLL comprising:

measuring the cell-calcification using a method

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according to any of claims 8-11.

- 13. A kit for measuring the cell-calcification of cells comprising either or both of an antibody to a C-11 protein and an antibody to a c-erg protein.
- 14. A method for screening a substance having cell-calcification inhibitory blocking activity, said method comprising using cells transformed with a gene encoding a protein selected from the group consisting of:
- (a) a protein comprising an amino acid sequence having SEQ ID NO. 2 (SEQUENCE LISTING);
- (b) a protein comprising an amino acid sequence that is derived from the amino acid sequence having SEQ ID NO. 2 by deletion, substitution or insertion of one or more amino acids, said protein having cellcalcification inhibitory activity;
- (c) a protein comprising an amino acid sequence having SEQ ID NO. 4 (SEQUENCE LISTING); and
- (d) a protein comprising an amino acid sequence that is derived from the amino acid sequence having SEQ ID NO. 4 by deletion, substitution or insertion of one or more amino acids, said protein having cellcalcification inhibitory activity.
- $$^{\circ}$$ 15. A pharmaceutical composition comprising an erg protein.
 - 16. A pharmaceutical composition comprising an

erg gene.

- A pharmaceutical composition comprising a Cll gene or a c-erg gene.
 - 19. A pharmaceutical composition comprising a protein having a consensus amino acid sequence between a c-erg protein and a C-11 protein.